

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference			
15270J-98-1PC	FOR FURTHER ACTION	See Form PCT/IPEA/416	
International application No.	International filing date (day/month/year)	Priority date (day/month/year)	
PCT/US04/02856	31 January 2004 (31.01.2004)	01 February 2003 (01.02.2003)	
International Patent Classification (IPC)	or national classification and IPC	(01102.2003)	
IPC(7): C12N 15/85, 15/86; A61K 39/0	0, 39/395; C07K 5/00 and US C1.: 530/300, 350,	387.3; 424/130.1, 178.1, 184.1; 435/325	
Applicant			
NEURALAB LIMITED			
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 			
2. This REPORT consists of	a total of sheets, including this cover s	sheet.	
3. This report is also accomp	anied by ANNEXES, comprising:		
a. (sent to the application	nt and to the International Bureau) a total of	sheets, as follows:	
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).			
amendment indicated in i	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.		
b. (sent to the Inter	national Bureau only) a total of (indicate type	and number of electronic carrier(s))	
, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).			
4. This report contains indications relating to the following items:			
	sis of the report		
Box No. II Pr	iority		
Box No. III No	on-establishment of opinion with regard to no plicability	velty, inventive step and industrial	
Box No. IV La	ck of unity of invention		
Box No. V Re	asoned statement under Article 35(2) with dustrial applicability; citations and explanation	regard to novelty, inventive step or	
	rtain documents cited		
Box No. VII Ce	ertain defects in the international application		
Box No. VIII Ce	I Certain observations on the international application		
Date of submission of the demand Date of completion of this report			
20 August 2004 (20.08.2004)			
Name and mailing address of the IPEA/	27 October 2005 (27.	10.2005)	
Mail Stop PCT, Attn: IPEA/US	i iiamolized ellicti	, , , , ,	
Commissioner for Patents P.O. Box 1450	Gregory S. Emch	7. Roberts for	
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Telephone No. (571)	272 1600	
Facsimile No. (703) 305-3230 Telephone No. (571): Form PCT/IPEA/409 (cover sheet)(April 2005)		4/2-1000	

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International	application	No.

PCT/US04/02856

Box No. I Basis of the report			
1. With regard to the language, this report is based on:			
the international application in the language in which it was filed.			
a translation of the international application into <u>English</u> , which is the language of a translation furnished for the purposes of:			
international search (under Rules 12.3 and 23.1(b))			
publication of the international application (under Rule 12.4(a))			
international preliminary examination (under Rules 55.2(a) and/or 55.3(a))			
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):			
the international application as originally filed/furnished			
the description: pages 1-36 as originally filed/furnished			
pages* NONE received by this Authority on			
pages* NONE received by this Authority on			
the claims:			
pages 37-46 as originally filed/furnished			
pages* NONE as amended (together with any statement) under Article 19			
pages* NONE received by this Authority on pages* NONE received by this Authority on			
the drawings:			
pages 1/2-2/2 as originally filed/furnished pages* NONE received by this Authority on			
pages* NONE received by this Authority on			
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.			
3. The amendments have resulted in the cancellation of:			
the description, pages			
the claims, Nos			
the drawings, sheets/figs			
the sequence listing (specify):			
any table(s) related to the sequence listing (specify):			
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).			
the description, pages			
the claims, Nos			
the drawings, sheets/figs			
the sequence listing (specify):			
any table(s) related to the sequence listing (specify):			
* If item 4 applies, some or all of those sheets may be marked "superseded." Form PCT/IPEA/409 (Box No. D. (April 2005)			

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International application No.

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Supplemental Box Relating to Sequence Listing				
Continuation of Box No. I, item 2:				
1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this report was established on the basis of:				
a. type of material				
a sequence listing				
table(s) related to the sequence listing				
b. format of material				
on paper				
in electronic form				
c. time of filing/furnishing				
contained in the international application as filed				
filed together with the international application in electronic form				
furnished subsequently to this Authority_for the purposes of search and/or examination				
received by this Authority as an amendment* on				
2. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
3. Additional comments:				
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If item 4 in Box No. I applies, the listing and/or table(s) related thereto, which form part of the basis of the report, may be marked uperseded."				

Form PCT/IPEA/409 (Supplemental Box Relating to Sequence Listing) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/02856

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
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1. Statement

Novelty (N)	Claims Please See Continuation Sheet	YES
	Claims Please See Continuation Sheet	NO
Inventive Step (IS)	Claims Blaces See Greetweet 19	
111. on 11. o otop (10)	Claims Please See Continuation Sheet	YES
	Claims Please See Continuation Sheet	NO
Today and A		
Industrial Applicability (IA)	Claims Please See Continuation Sheet	YES
	Claims Please See Continuation Sheet	NO

2. Citations and Explanations (Rule 70.7)

Claims 1, 4-6, 8, 14, 17, 27, 28, 48, 51-53, 55, 61, 64, 74, 75, 96, and 99-102 lack novelty under PCT Article 33(2) as being anticipated by US 2002/0162129 A1 (LANNEFLT, L. ET AL.) 31 October 2002 (31.10.2002). US 2002/0162129 A1 teaches a method of immunization with Abeta fragments for treatment of Alzheimer's disease, pharmaceutical compositions, polynucleotide vaccines, and immunogenic fragments comprising same.

Claims 1, 4-6, 8, 14, 17, 27, 28, 48, 51-53, 55, 61, 64, 74, 75, 96, and 99-102 lack novelty under PCT Article 33(2) as being anticipated by US 2002/0094335 A1 (CHALIFOUR, R. ET AL.) 18 July 2002 (18.07.2002). US 2002/0094335 A1 teaches a method of immunization with Abeta fragments for treatment of Alzheimer's disease, pharmaceutical compositions, polynucleotide vaccines, and immunogenic fragments comprising same.

Claims 1, 4-6, 8, 48, 51-53, 55, 57-58, 96, and 99-102 lack novelty under PCT Article 33(2) as being anticipated by SCHENK, D. ET AL. Immunization with amyloid-b attenuates Alzheimer-disease-like pathology in the PDAPP mouse. Nature 8 July 1999, Vol. 400, No. 6740. SCHENK, D. ET AL. teaches a method of immunization with Abeta fragments for treatment of Alzheimer's disease, pharmaceutical compositions, and immunogenic fragments comprising same.

Claims 1, 4-6, 8, 48, 51-53, 55, 57-58, 96, and 99-102 lack novelty under PCT Article 33(2) as being anticipated by SIGURDSSON, E.M. ET AL. Immunization with a Nontoxic/Nonfibrillar Amyloid-b Homologous Peptide Reduces Alzheimer's Disease-Associated Pathology in Transgenic Mice. American Journal of Pathology August 2001, Vol. 159, No. 2, pages 439-447. SIGURDSSON, E.M. ET AL. teaches a method of immunization with Abeta fragments for treatment of Alzheimer's disease, pharmaceutical compositions, and immunogenic fragments comprising same.

Claims 1, 4-6, 8, 48, 51-53, 55, 57-58, 96, and 99-102 lack novelty under PCT Article 33(2) as being anticipated by LEMERE, C.A. ET AL. Intranasal immunotherapy for the treatment of Alzheimer's disease: Escherichia coli LT and LT(R192G) as mucosal adjuvants. Neurobiology of Aging November/December 2002, Vol. 23, No. 6. LEMERE, C.A. ET AL. teaches a method of immunization with Abeta fragments for treatment of Alzheimer's disease, pharmaceutical compositions, and immunogenic fragments comprising same.

Claims 1, 4-6, 8, 14, 17, 27, 28, 48, 51-53, 55, 61, 64, 74, 75, 96, and 99-102 lack an inventive step under PCT Article 33(3) because inventions lacking novelty do not have an inventive step.

Claims 1, 4-6, 8, 14, 17, 27, 28, 48, 51-53, 55, 61, 64, 74, 75, 96, and 99-102 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Claims 2-3, 7, 9-13, 15-16, 18-26, 29-47, 59-50, 54, 56-60, 62-63, 65-73, 76-95 and 97-98 meet the criteria set out in PCT Article 33(2)-(3) because the prior art does not teach or fairly suggest the claimed invention.

Form PCT/IPEA/409 (Box No. V) (April 2005)

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Box No. VII	Certain defects in the international application			
The following defects in the form or contents of the international application have been noted:				
Claim 48 is object fifth line.	Claim 48 is objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or contents thereof: typo in the fifth line.			
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Form PCT/IPEA/409 (Box No. VII) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/02856

Supplemental Box
In case the space in any of the preceding boxes is not sufficient.
Continuation of:
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V.1. Reasoned Statements: The opinion as to Novelty was positive (Yes)with respect to claims 2-3, 7, 9-13, 15-16, 18-26, 29-47, 49-50, 54, 56-60, 62-63, 65-73, 76-95, 97-98 The opinion as to Novelty was negative (No) with respect to claims 1, 4-6, 8, 14, 17, 27, 28, 48, 51-53, 55, 61, 64, 74, 75, 96, 99-
102 The opinion as to Inventive Step was positive (Yes) with respect to claims 2-3, 7, 9-13, 15-16, 18-26, 29-47, 49-50, 54, 56-60, 62-63,
65-73, 76-95, 97-98 The opinion as to Inventive Step was negative(NO) with respect to claims 1, 4-6, 8, 14, 17, 27, 28, 48, 51-53, 55, 61, 64, 74, 75, 96, 99-102
The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-102 The opinion as to Industrial Applicability was negative(NO) with respect to claims NONE
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